66 489A A 30

Electrical Stimulation of the Thalamic and Subthalamic Area in Cerebral Palsy. By M. R. BERGSTRÖM, G. G. JOHANSSON, L. V. LAITINEN and P. SIPPONEN 208
Pancreatic Response to Repeated Secretin Stimulation in Dogs. By F. W. HENRIKSEN .. 214
Changes of Nucleoside Phosphatase Activity in the Hypoglossal Nucleus during Nerve Regeneration. By J. SJÖSTRAND 219
Metabolic Effects of Infused Sodium L (+) Lactate in Man before and after Triiodothyronine Treatment. By N. SVEDMYR 229
Dextran-Induced Release of 5-Hydroxytryptamine from Rabbit Platelets. By B. WESTERHOLM 236
Functional Localization in the Cerebellar Cortex Studied by Quantitative Determinations of Purkinje Cell RNA. 1. RNA changes in rat cerebellar Purkinje cells after proprio- and exteroceptive and vestibular stimulation. By J. JARLSTEDT 243
Potentiated Response of Isolated Seminal Vesicles to Catecholamines and Acetylcholine in the Presence of PGE_1. By R. ELIASSON and P. L. RISLEY 253
Electron Microscopic Observations on Nerve Terminals in the Intrinsic Muscles of the Albino Rat Iris. By T. HÖKFELT 255

Fasc. 3—4. (July—August 1966.)

Nils-Åke Hillarp 1916—1965. By A. CARLSSON 257
Histochemical Studies on a Special Catecholamine-Containing Cell Type in Sympathetic Ganglia. By K.-A. NORBERG, M. RITZÉN and U. UNGERSTEDT 260
Some Quantitative Studies on the Noradrenaline Content in the Cell Bodies and Terminals of a Sympathetic Adrenergic Neuron System. By A. DAHLSTRÖM and J. HÄGGENDAL 271
Studies on the Transport and Life-Span of Amine Storage Granules in a Peripheral Adrenergic Neuron System. By A. DAHLSTRÖM and J. HÄGGENDAL 278
The Noradrenaline Content of the Varicosities of Sympathetic Adrenergic Nerve Terminals in the Rat. By A. DAHLSTRÖM, J. HÄGGENDAL and T. HÖKFELT 289
Uptake of 3,4-Dihydroxyphenylalanine and 5-Hydroxytryptophan by Catecholamine Forming Mast Cells in the Hamster. By J. ADAMS-RAY, A. DAHLSTRÖM and CH. SACHS 295
Changes in Rat Pineal Stores of 5-Hydroxytryptamine after Inhibition of its Synthesis or Break-Down. By B. FALCK, CH. OWMAN and E. ROSENGREN 300
A Quantitative Study on the Nigro-Neostriatal Dopamine Neuron System in the Rat. By N.-E. ANDÉN, K. FUXE, B. HAMBERGER and T. HÖKFELT 306
Ascending Monoamine Neurons to the Telencephalon and Diencephalon. By N.-E. ANDÉN, A. DAHLSTRÖM, K. FUXE, K. LARSSON, L. OLSON and U. UNGERSTEDT 313
Responses of Skeletal Musculature and its Vasculature During "Diving" in the Duck: Peculiarities of the Adrenergic Vasoconstrictor Innervation. By B. FOLKOW, K. FUXE and R. R. SONNENSCHEIN 327
Release of Free Fatty Acids from Subcutaneous Adipose Tissue in Dogs Following Sympathetic Nerve Stimulation. By S. ROSELL 343
The effect of Nerve Activity on the Depletion of the Adrenergic Transmitter by Inhibitors of Noradrenaline Synthesis. By H. CORRODI and T. MALMFORS 352
Differences in the Uptake of Secondary Catecholamines by the Adrenergic Nerves. By H. CORRODI, T. MALMFORS and CH. SACHS 358
Effect of Cervical Sympathetic Stimulation on Accommodation in Monkeys. An example of a beta-adrenergic, inhibitory effect. By G. TÖRNQVIST 363
The Effect of DOPA in the Spinal Cord. 1. Influence on Transmission from Primary Afferents. By N.-E. ANDÉN, M. G. M. JUKES, A. LUNDBERG and L. VYKLICKÝ 373
The Effect of DOPA on the Spinal Cord. 2. A Pharmacological Analysis. By N.-E. ANDÉN, M. G. M. JUKES and A. LUNDBERG 387

Reciprocal Effects on α and γ-Motoneurones of Drugs Influencing Monoaminergic and Cholinergic Transmission. By J. Arvidsson, B.-E. Roos and G. Steg..... 398
Monoamines in Brain and Adrenal Glands of Cats after Electrically Induced Defence Reaction. By L.-M. Gunne and T. Lewander..... 405
The Effect of Imipramine and Related Antidepressive Drugs on Estrus Behaviour in Ovariectomised Rats Activated by Progesterone, Reserpine or Tetrabenazine in Combination with Estrogen. By B. J. Meyerson..... 411
Uptake of Metaraminol by the Adrenal Medullary Granules. By P. Lundborg..... 423
Release and Uptake of Noradrenaline in Adrenergic Nerve Granules. By U. S. von Euler 430
Studies of Noradrenaline Biosynthesis in Nerve Tissue. By L. Stjärne..... 441
Mode of Storage of Histamine in Mast Cells. By I. L. Thon and B. Uvnäs..... 455
Release of ^{3}H-Metaraminol by Different Mechanisms. By A. Carlsson and B. Waldeck 471
Biochemical and Histochemical Studies on the Effects of Imipramine-like Drugs and (+)-Amphetamine on Central and Peripheral Catecholamine Neurons. By A. Carlsson, K. Fuxe, B. Hamberger and M. Lindqvist..... 481
Adrenergic Nerve Function, Noradrenaline Level and Noradrenaline Uptake in Cat Nictitating Membrane after Reserpine Treatment. By N.-E. Andén and M. Henning 498
Microspectrofluorometric Identification of Metaraminol in Sympathetic Adrenergic Neurons. By G. Jonsson and M. Ritzén..... 505
A Versatile Device for Microscopic Spectrofluorometry. By G. Thieme..... 514

Supplementum 265. 5-Hydroxytryptamine, 5-Hydroxytryptophan Decarboxylase and Monoamine Oxidase during Foetal and Postnatal Development in the Guinea-Pig. By A. Tissari.
Supplementum 266. Cardiovascular Response to Changes in Arterial Carbon Dioxide Tension. By T. Suutarinen.
Supplementum 267. Microfluorometric Characterization of Intracellular Nucleic Acids and Nucleoproteins by Acridine Orange. By R. Rigler Jr.
Supplementum 268. Ocular and Orbital Vegetative Nerves. By B. Ehinger.
Supplementum 269. Quantitative Aspects of Blood Flow and Oxygen Uptake in the Human Forearm during Rhythmic Exercise. By J. Wahren.
Supplementum 270. Glial Cells in the Hypoglossal Nucleus of the Rabbit during Nerve Regeneration. By J. Sjöstrand.
Supplementum 271. Functional Localization in the Cerebellar Cortex Studied by Quantitative Determination of Purkinje Cell RNA. By J. Jarlstedt.

INDEX AUCTORUM

ADAMS-RAY, J., A. DAHLSTRÖM and CH. SACHS, Uptake in Catecholamine Forming Mast Cells 295

ALMGREN, O., N.-E. ANDÉN, J. JONASON, K.-A. NORBERG and L. OLSON, MAO in Salivary Glands 21

ANDÉN, N.-E., O. ALMGREN, J. JONASON, K.-A. NORBERG and L. OLSON, MAO in Salivary Glands 21

ANDÉN, N.-E. and M. HENNING, Reserpine and Adrenergic Transmission 498

ANDÉN, N.-E., A. DAHLSTRÖM, K. FUXE, K. LARSSON, L. OLSON and U. UNGERSTEDT, Monoamine Neurons to the Forebrain 313

ANDÉN, N.-E., K. FUXE, B. HAMBERGER and T. HÖKFELT, Nigro-Neostriatal Dopamine Neurons 306

ANDÉN, N.-E., M. G. M. JUKES and A. LUNDBERG, Analysis of Dopa Effect 387

ANDÉN, N.-E., M. G. M. JUKES, A. LUNDBERG and L. VYKLICKY, Dopa on Spinal Cord Transmission 373

ANDERSSON, B., M. JOBIN and K. OLSSON, Serotonine and Temperature Control *50*

ANDERSSON, B., M. JOBIN and K. OLSSON, Stimulation of Urinary Salt Excretion ... 127

ARVIDSSON, J., B.-E. ROOS and G. STEG, Reciprocal Drug Effects on α and γ-Motoneurones 398

BERGSTRÖM, S., L. A. CARLSON and L. ORÖ, Metabolic Effects of PGE_1 141

BERGSTRÖM, S., L. A. CARLSON and L. ORÖ, Different PGE_1 Doses & FFA 185

BERGSTRÖM, M. R., G. G. JOHANSSON, L. V. LAITINEN and P. SIPPONEN, Thalamic Stimulation in Cerebral Palsy 208

BETZ, E., D. H. INGVAR, N. A. LASSEN and F. W. SCHMAHL, Regional Cortical Blood Flow 1

CARLSSON, A., *Nils-Åke Hillarp 1916—1965* 257

CARLSON, L. A. and L. ORÖ, Cardiovascular Effects of PGE_1 89

CARLSON, L. A., S. BERGSTRÖM and L. ORÖ, Metabolic Effects of PGE_1 141

CARLSON, L. A., S. BERGSTRÖM and L. ORÖ, Different PGE_1 Doses & FFA 185

CARLSSON, A. and B. WALDECK, Release of ^{3}H-Metaraminol by Different Mechanisms 471

CARLSSON, A., K. FUXE, B. HAMBERGER and M. LINDQVIST, Effects of Antidepressive Drugs on Catecholamines 481

CORRODI, H. and T. MALMFORS, Depletion by Inhibitors of NA Synthesis 352

CORRODI, H., T. MALMFORS and CH. SACHS, Uptake of Secondary Catecholamines 358

DAHLSTRÖM, A. and J. HÄGGENDAL, Noradrenaline in Adrenergic Cell Bodies and Terminals 271

DAHLSTRÖM, A. and J. HÄGGENDAL, Transport and Life-Span of Amine Granules 278

DAHLSTRÖM, A., J. ADAMS-RAY and CH. SACHS, Uptake in Catecholamine Forming Mast Cells 295

DAHLSTRÖM, A., N.-E. ANDÉN, K. FUXE, K. LARSSON, L. OLSON and U. UNGERSTEDT, Monoamine Neurons to the Forebrain 313

DAHLSTRÖM, A., J. HÄGGENDAL and T. HÖKFELT, Noradrenaline in Adrenergic Terminal Varicosities 289

DRESEL, P., B. FOLKOW and I. WALLENTIN, RB^{86} Clearance and Intestinal Blood Flow .. 173

EHINGER, B., Adrenergic Nerves in the Eye 57

EHINGER, B. and B. FALCK, Nerve Fibres in the Rat Iris 201

ELIASSON, R. and P. L. RISLEY, Catecholamines and PGE_1 253

ELMQVIST, D. and D. S. FELDMAN, Ions and ACH Release 34

EULER, U. S. v., Noradrenaline in Nerve Granules 430

FALCK, B. and B. EHINGER, Nerve Fibres in the Rat Iris 201

FALCK, B., CH. OWMAN and E. ROSENGREN, Turn-Over of 5-HT in Rat Pineal 300

FELDMAN, D. S. and D. ELMQVIST, Ions and ACH Release 34
FOLKOW, B., P. DRESEL and I. WALLENTIN, RB^{86} Clearance and Intestinal Blood Flow 173
FOLKOW, B., K. FUXE and R. R. SONNENSCHEIN, Control of Muscle Blood Flow in Diving Animals 327
FUXE, K., N.-E. ANDÉN, B. HAMBERGER and T. HÖKFELT, Nigro-Neostriatal Dopamine Neurons 306
FUXE, K., N.-E. ANDÉN, A. DAHLSTRÖM, K. LARSSON, L. OLSON and U. UNGERSTEDT, Monoamine Neurons to the Forebrain 313
FUXE, K., A. CARLSSON, B. HAMBERGER and M. LINDQVIST, Effects of Antidepressive Drugs on Catecholamines 481
FUXE, K., B. FOLKOW and R. R. SONNENSCHEIN, Control of Muscle Blood Flow in Diving Animals 327
GRAMPP, W., After-Depolarizations in Sensory Neuron I 100
GRAMPP, W., After-Depolarization in Sensory Neuron II 116
GUNNE, L.-M. and T. LEWANDER, Monoamines in Brain 405
HÄGGENDAL, J. and A. DAHLSTRÖM, Noradrenaline in Adrenergic Cell Bodies and Terminals 271
HÄGGENDAL, J. and A. DAHLSTRÖM, Transport and Life-Span of Amine Granules 278
HÄGGENDAL, J., A. DAHLSTRÖM and T. HÖKFELT, Noradrenaline in Adrenergic Terminal Varicosities 289
HAMBERGER, A. and J. SJÖSTRAND, Enzymes in Regenerating Hypoglossal Cells 76
HAMBERGER, B., N.-E. ANDÉN, K. FUXE and T. HÖKFELT, Nigro-Neostriatal Dopamine Neurons 306
HAMBERGER, B., A. CARLSSON, K. FUXE and M. LINDQVIST, Effects of Antidepressive Drugs on Catecholamines 481
HENNING, M. and N.-E. ANDÉN, Reserpine and Adrenergic Transmission 498
HENRIKSEN, F. W., Secretin Stimulation in Dogs 214
HJELM, M., S. G. ÖSTLING and A. E. G. PERSSON, Hypotonic Hemolysis 43
HÖKFELT, T., Nerve Terminals in Rat Iris 255
HÖKFELT, T., N.-E. ANDÉN, K. FUXE and B. HAMBERGER, Nigro-Neostriatal Dopamine Neurons 306
HÖKFELT, T., A. DAHLSTRÖM and J. HÄGGENDAL, Noradrenaline in Adrenergic Terminal Varicosities 289
INGVAR, D. H., E. BETZ, N. A. LASSEN and F. W. SCHMAHL, Regional Cortical Blood Flow 1
JARLSTEDT, J., RNA Changes in Purkinje Cells 243
JOBIN M., B. ANDERSSON and K. OLSSON, Serotonine and Temperature Control 50
JOBIN, M., B. ANDERSSON and K. OLSSON, Stimulation of Urinary Salt Excretion 127
JOHANSSON, G. G., M. R. BERGSTRÖM, L. V. LAITINEN and P. SIPPONEN, Thalamic Stimulation in Cerebral Palsy 208
JONASON, J., O. ALMGREN, N.-E. ANDÉN, K.-A. NORBERG and L. OLSON, MAO in Salivary Glands 21
JONSSON, G. and M. RITZÉN, Microspectrofluorometric Identification of Metaraminol 505
JOSEFSSON, L. and H. SJÖSTRÖM, Release of Intestinal Dipeptidases 27
JUKES, M. G. M., N.-E. ANDÉN and A. LUNDBERG, Analysis of Dopa Effect 387
JUKES, M. G. M., N.-E. ANDÉN, A. LUNDBERG and L. VYKLICKY, Dopa on Spinal Cord Transmission 373
LAITINEN, L. V., M. R. BERGSTRÖM, G. G. JOHANSSON and P. SIPPONEN, Thalamic Stimulation in Cerebral Patsy 208
LARSSON, K., N.-E. ANDÉN, A. DAHLSTRÖM, K. FUXE, L. OLSON and U. UNGERSTEDT,

Monoamine Neurons to the Forebrain ... 313
LASSEN, N. A., E. BETZ, D. H. INGVAR and F. W. SCHMAHL, Regional Cortical Blood Flow ... 1
LAURSEN, A. M. and M. WIESENDANGER, Pyramidal Effects on Alpha and Gamma Motoneurons ... 165
LEWANDER, T. and L.-M. GUNNE, Monoamines in Brain ... 405
LINDQVIST, M., A. CARLSSON, K. FUXE and B. HAMBERGER, Effects of Antidepressive Drugs on Catecholamines ... 481
LUNDBERG, A., N.-E. ANDÉN and M. G. M. JUKES, Analysis of Dopa Effect ... 387
LUNDBERG, A., N.-E. ANDÉN, M. G. M. JUKES and L. VYKLICKÝ, Dopa on Spinal Cord Transmission ... 373
LUNDBORG, P., Uptake of Metaraminol by Granules ... 423
LUNDHOLM, L. and N. SVEDMYR, Adrenaline on the Respiration ... 65
MALMFORS, T. and H. CORRODI, Depletion by Inhibitors of NA Synthesis ... 352
MALMFORS, T., H. CORRODI and CH. SACHS, Uptake of Secondary Catecholamines ... 358
MÅRTENSSON, A., Innervation of Laryngeal Muscles ... 152
MELLEMGAARD, K., Alveolar-Arterial O_2 Difference ... 10
MEYERSON, B. J., Antidepressive Drugs on Estrus Behaviour ... 411
NORBERG, K.-A., O. ALMGREN, N.-E. ANDÉN, J. JONASON and L. OLSON, MAO in Salivary Glands ... 21
NORBERG, K.-A., M. RITZÉN and U. UNGERSTEDT, Special Cells in Sympathetic Ganglia 260
OLSSON, K., B. ANDERSSON and M. JOBIN, Serotonine and Temperature Control ... 50
OLSSON, K., B. ANDERSSON and M. JOBIN, Stimulation of Urinary Salt Excretion ... 127
OLSON, L., O. ALMGREN, N.-E. ANDÉN, J. JONASON and K.-A. NORBERG, MAO in Salivary Glands ... 21
OLSON, L., N.-E. ANDÉN, A. DAHLSTRÖM, K. FUXE and U. UNGERSTEDT, Monoamine Neurons to the Forebrain ... 313
ORÖ, L. and L. A. CARLSON, Cardiovascular Effects of PGE_1 ... 89
ORÖ, L., S. BERGSTRÖM and L. A. CARLSON, Metabolic Effects of PGE_1 ... 141
ORÖ, L., S. BERGSTRÖM and L. A. CARLSON, Different PGE_1 Doses & FFA ... 185
ÖSTLING, S. G., M. HJELM and A. E. G. PERSSON, Hypotonic Hemolysis ... 43
OWMAN, CH., B. FALCK and E. ROSENGREN, Turn-Over of 5-HT in Rat Pineal ... 300
PERSSON, A. E. G., M. HJELM and S. G. ÖSTLING, Hypotonic Hemolysis ... 43
PONTÉN, U. and B. K. SIESJÖ, P_{CO_2} in Brain Tissue ... 129
RISLEY, P. L. and R. ELIASSON, Catecholamines and PGE_1 ... 253
RITZÉN, M. and G. JONSSON, Microspectrofluorometric Identification of Metaraminol 505
RITZÉN, M., K.-A. NORBERG and U. UNGERSTEDT, Special Cells in Sympathetic Ganglia 260
ROOS, B.-E., J. ARVIDSSON and G. STEG, Reciprocal Drug Effects on α- and γ-Motoneurones ... 398
ROSELL, S., Release of Free Fatty Acids ... 343
ROSENGREN, E., B. FALCK and CH. OWMAN, Turn-Over of 5-HT in Rat Pineal ... 300
SACHS, CH., J. ADAMS-RAY and A. DAHLSTRÖM, Uptake in Catecholamine Forming Mast Cells ... 295
SACHS, CH., H. CORRODI and T. MALMFORS, Uptake of Secondary Catecholamines ... 358
SCHMAHL, F. W., E. BETZ, D. H. INGVAR and N. A. LASSEN, Regional Cortical Blood Flow 1
SIESJÖ, B. K. and U. PONTÉN, P_{CO_2} in Brain Tissue ... 129
SIPPONEN, P., M. R. BERGSTRÖM, G. G. JOHANSSON and L. V. LAITINEN, Thalamic Stimulation in Cerebral Palsy ... 208
SJÖSTRÖM, H. and L. JOSEFSSON, Release of Intestinal Dipeptidases ... 27
SJÖSTRAND, J., Nucleoside Phosphatase Activity during Nerve Regeneration ... 219
SJÖSTRAND, J. and A. HAMBERGER, Enzymes in Regenerating Hypoglossal Cells ... 76

SONNENSCHEIN, R. R., B. FOLKOW and K. FUXE, Control of Muscle Blood Flow in Diving Animals 327
STEG, G., J. ARVIDSSON and B.-E. ROOS, Reciprocal Drug Effects on α- and γ-Motoneurones 398
STJÄRNE, L., Noradrenaline Synthesis 441
SVEDMYR, N., Metabolic Effects of Lactate 229
SVEDMYR, N. and L. LUNDHOLM, Adrenaline on the Respiration 65
THIEME, G., Microscopic Spectrofluorometry 514
THON, I. L. and B. UVNÄS, Mode of Storage of Histamine in Mast Cells 455
TÖRNQVIST, G., Sympathetic System and Accommodation 363
UNGERSTEDT, U., K.-A. NORBERG and M. RITZÉN, Special Cells in Sympathetic Ganglia 260
UNGERSTEDT, U., N.-E. ANDÉN, A. DAHLSTRÖM, K. FUXE, K. LARSSON and L. OLSON, Monoamine Neurons to the Forebrain 315
UVNÄS, B. and I. L. THON, Mode of Storage of Histamine in Mast Cells 455
WALDECK, B. and A. CARLSSON, Release of ^{3}H-Metaraminol by Different Mechanisms 471
WALLENTIN, I., P. DRESEL and B. FOLKOW, RB^{86} Clearance and Intestinal Blood Flow 173
WESTERHOLM, B., Dextran-Induced 5-HT Release 236
WESTMAN, S., Utilization of Palmivtate in Mice 194
WIESENDANGER, M. and A. M. LAURSEN, Pyramidal Effects on Alpha and Gamma Motoneurons 165
VYKLICKY, L., N.-E. ANDÉN, M. G. M. JUKES and A. LUNDBERG, Dopa on Spinal Cord Transmission 373

KUNGL. BOKTR. STHLM 1966